

**METHOD FOR RAPID UPLINK ACCESS BY GSM GPRS/EDGE MOBILE  
STATIONS ENGAGED IN VOICE OVER INTERNET PROTOCOL PACKET  
TRANSFER MODE**

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**ABSTRACT OF THE DISCLOSURE**

10 A communication system including a mobile station (202, 322) sending a plurality  
of uplink radio link control data blocks (328, 332, 336, 340) to a base station (208,  
320) in an uplink temporary block flow (248), and receiving a plurality of downlink  
radio link control data blocks (326, 330, 334, 338, 342) from the base station in a  
downlink temporary block flow (225). The communication system includes a  
protocol control unit (214) within the base station, having a base station medium  
access control layer (213) that sends an identifier during setup of the downlink  
15 temporary block flow (224), and sends an uplink state flag indicating channel  
availability in a first one of the plurality of downlink radio link control data blocks  
(326). A GPRS/EDGE subsystem (210) is located within the mobile station, having a  
mobile station medium access control layer (211) that receives the identifier and the  
uplink state flag, and sends uplink data in a first one of the plurality of uplink radio  
20 link control data blocks (32) to the base station in response to the uplink state flag  
indicating channel availability. The base station medium access control layer sends a  
directed acknowledgement in a subsequent one of the plurality of downlink radio link  
control data blocks (330) in response to receipt of the uplink data from the mobile  
station, and the mobile station sends uplink data in a second one of the plurality of  
25 uplink radio link control data blocks (332) in response to the directed  
acknowledgement.